

Figure 1

Mr $\times 10^{-3}$

200—

116—

92—

68—

43—

1 2 3 4

—βME +βME

Figure 2

ONCOSTATIN M SIGNAL PEPTIDE

```

-25          -20
M  G  V  L  L  T  Q  R  T  L  L  S  L  V  L
ATG GGT GTA CTG CTC ACA CAG AGG ACG CTG CTC AGT CTG GTC CTT 45

-10          -1  +1
A  L  L  F  P  S  M  A  S  M  A  M  H  V  A
GCA CTC CTG TTT CCA AGC ATG GCG AGC ATG GCA ATG CAC GTG GCC 90

          +10          +20
Q  P  A  V  V  L  A  S  S  R  G  I  A  S  F
CAG CCT GCT GTG GTA CTG GCC AGC AGC CGA GGC ATC GCC AGC TTT 135

          +30
V  C  E  Y  A  S  P  G  K  A  T  E  V  R  V
GTG TGT GAG TAT GCA TCT CCA GGC AAA GCC ACT GAG GTC CGG GTG 180

          +40          +50
T  V  L  R  Q  A  D  S  Q  V  T  E  V  C  A
ACA GTG CTT CGG CAG GCT GAC AGC CAG GTG ACT GAA GTC TGT GCG 225

          +60
A  T  Y  M  M  G  N  E  L  T  F  L  D  D  S
GCA ACC TAC ATG ATG GGG AAT GAG TTG ACC TTC CTA GAT GAT TCC 270

          +70          +80
I  C  T  G  T  S  S  G  N  Q  V  N  L  T  I
ATC TGC ACG GGC ACC TCC AGT GGA AAT CAA GTG AAC CTC ACT ATC 315

          +90
Q  G  L  R  A  M  D  T  G  L  Y  I  C  K  V
CAA GGA CTG AGG GCC ATG GAC ACG GGA CTC TAC ATC TGC AAG GTG 360

          GLYCOSYLATION SITE
          +100          +110
E  L  M  Y  P  P  P  Y  Y  L  G  I  G  N  G
GAG CTC ATG TAC CCA CCG CCA TAC TAC CTG GGC ATA GGC AAC GGA 405

          +120
T  Q  I  Y  V  I  D  P  E  P  C  P  D  S  D
ACC CAG ATT TAT GTA ATT GAT CCA GAA CCG TGC CCA GAT TCT GAC 450

          +130
F  L  L  W  I  L  A  A  V  S  S  G  L  F  F
TTC CTC CTC TGG ATC CTT GCA GCA GTT AGT TCG GGG TTG TTT TTT 495

          +140          +150
Y  S  F  L  L  T  A  V  S  L  S  K  M  L  K
TAT AGC TTT CTC CTC ACA GCT GTT TCT TTG AGC AAA ATG CTA AAG 540

          +160
K  R  S  P  L  T  T  G  V  Y  V  K  M  P  P
AAA AGA AGC CCT CTT ACA ACA GGG GTC TAT GTG AAA ATG CCC CCA 585

          +170          +180
T  E  P  E  C  E  K  Q  F  Q  P  Y  F  I  P
ACA GAG CCA GAA TGT GAA AAG CAA TTT CAG CCT TAT TTT ATT CCC 630

          +187
I  N
ATC AAT 636

```

Figure 3

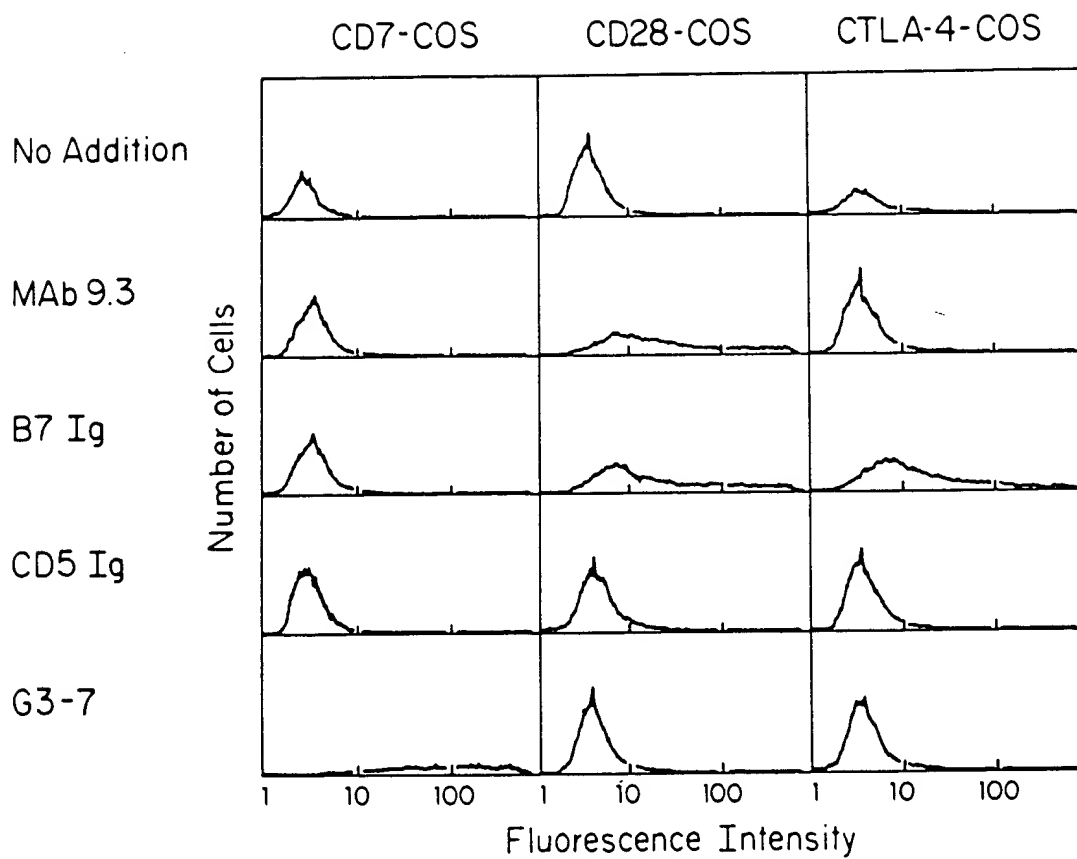


Figure 4

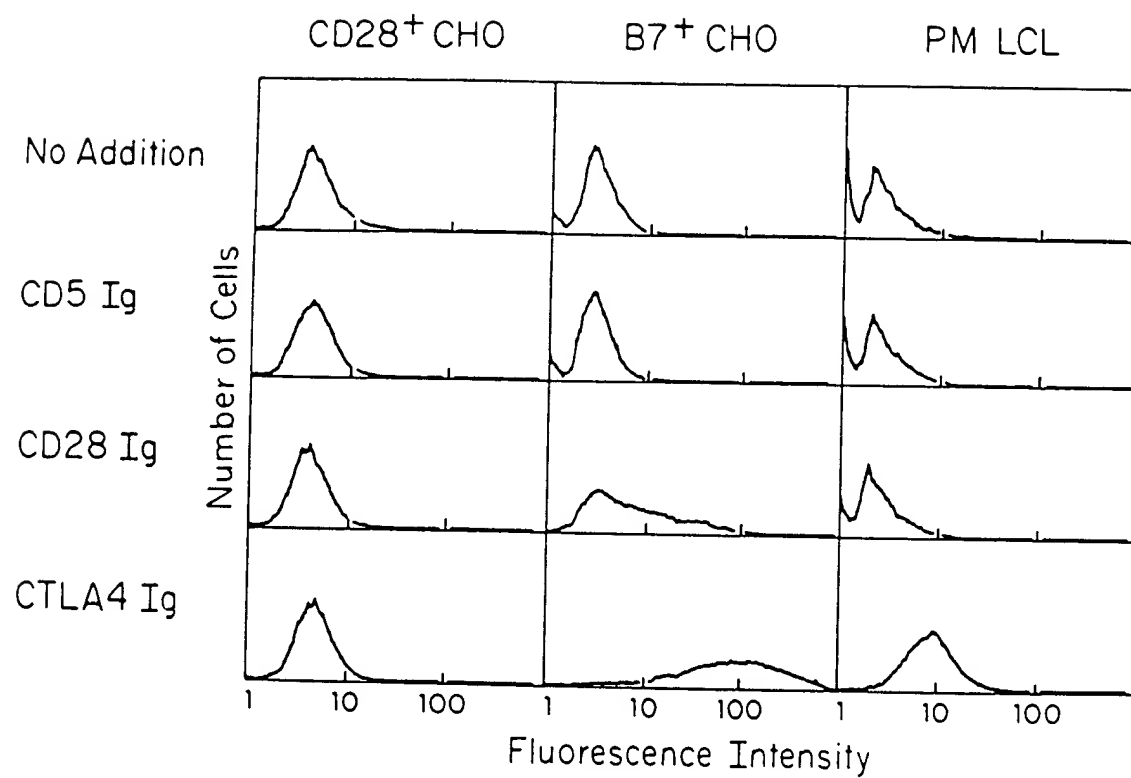


Figure 5

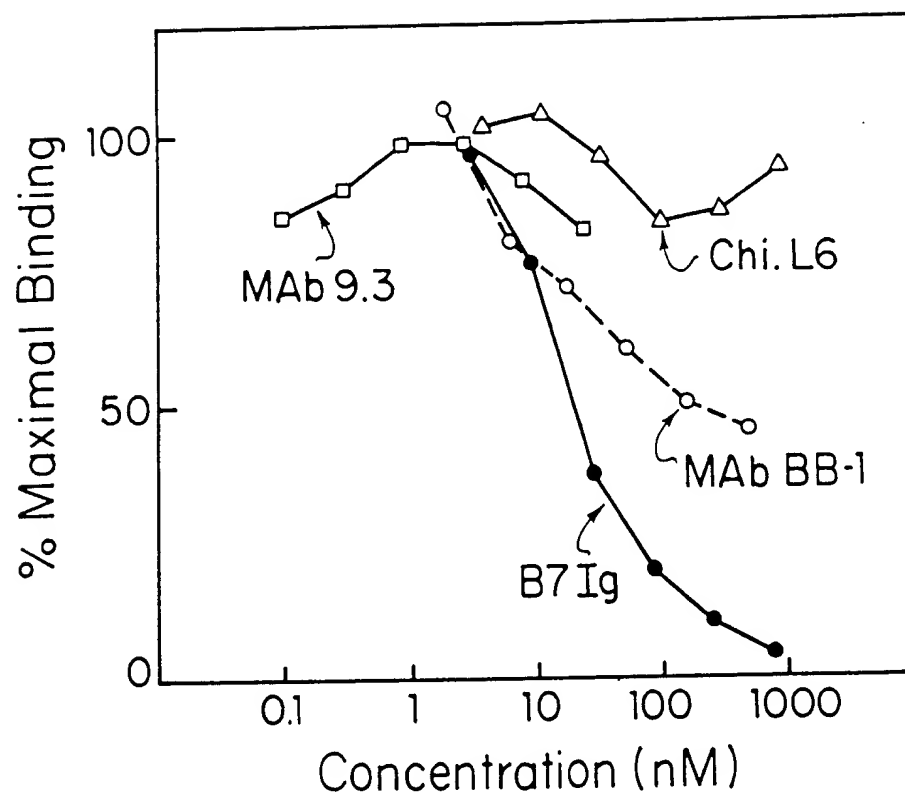


Figure 6

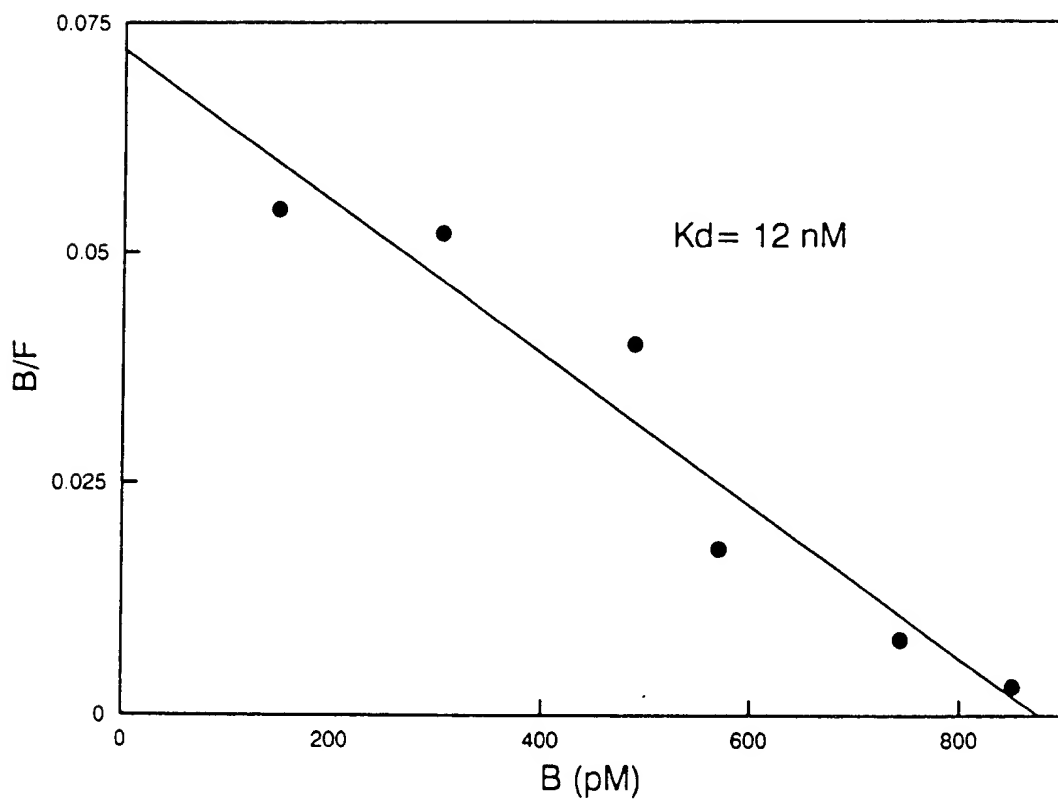


Figure 7

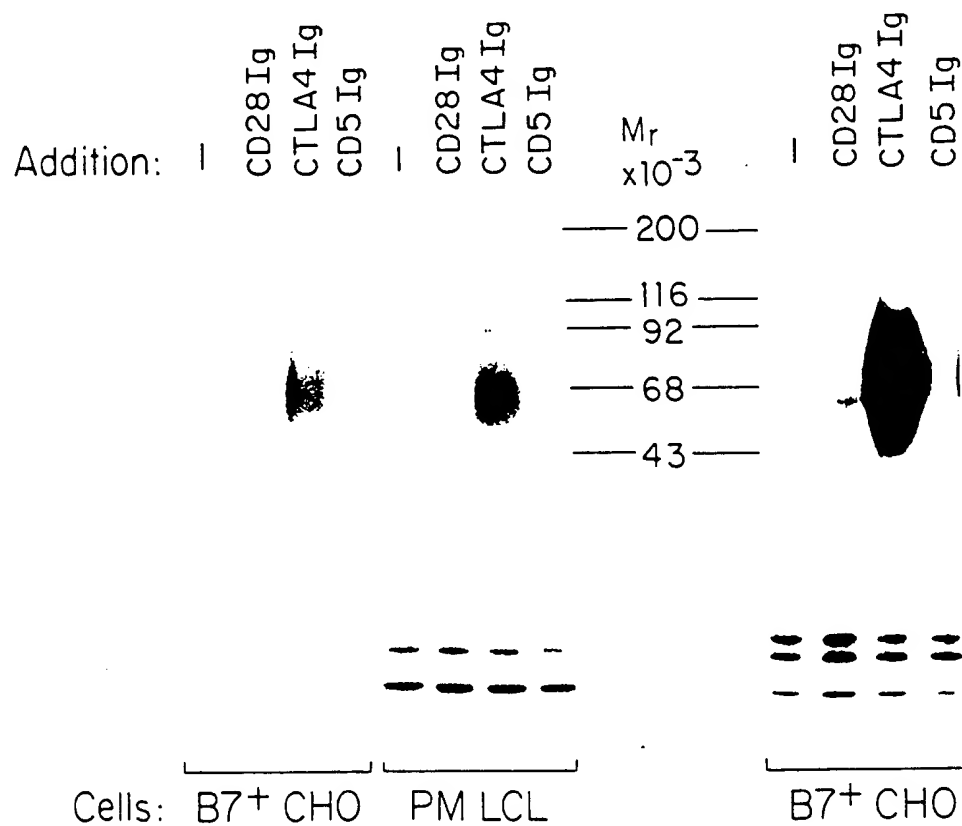


Figure 8

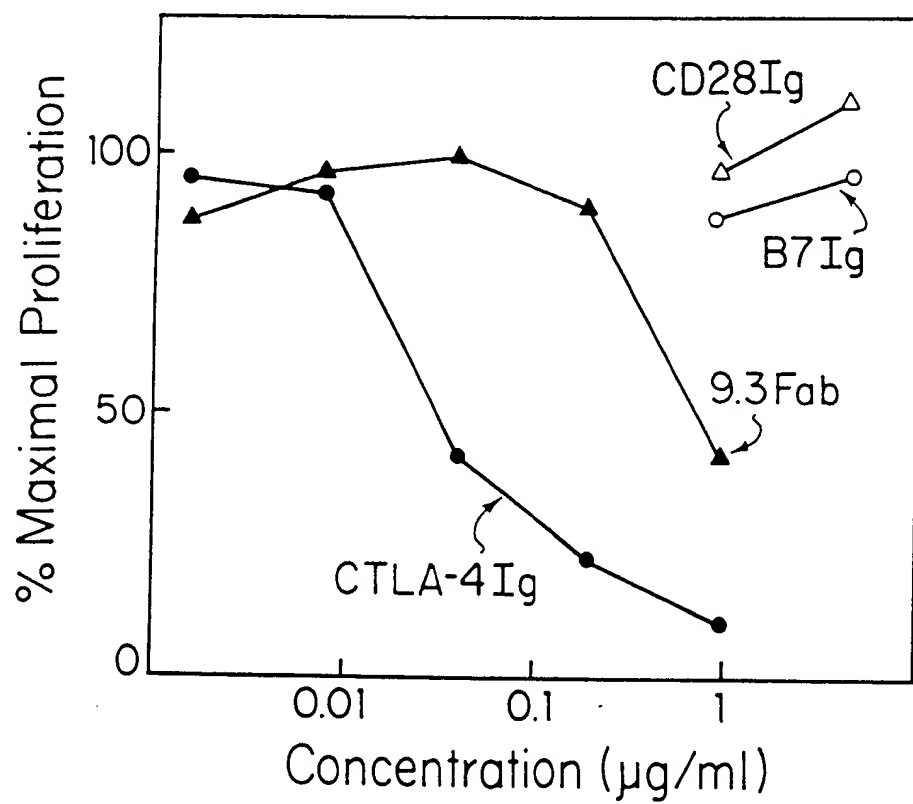


Figure 9

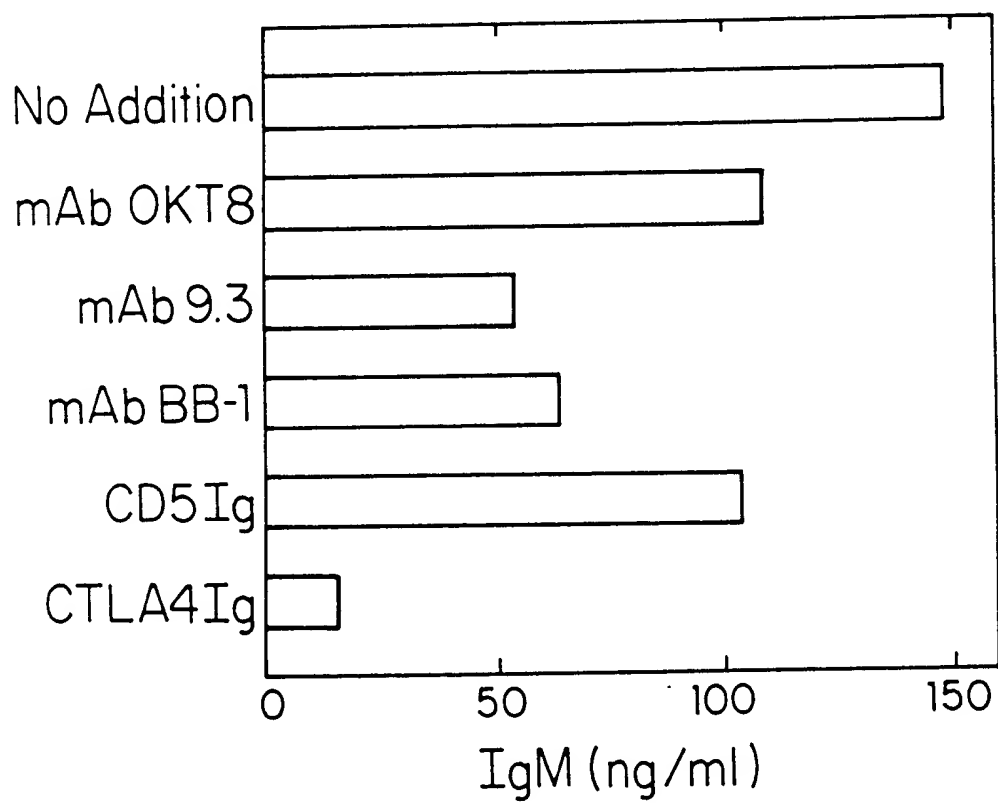


Figure 10

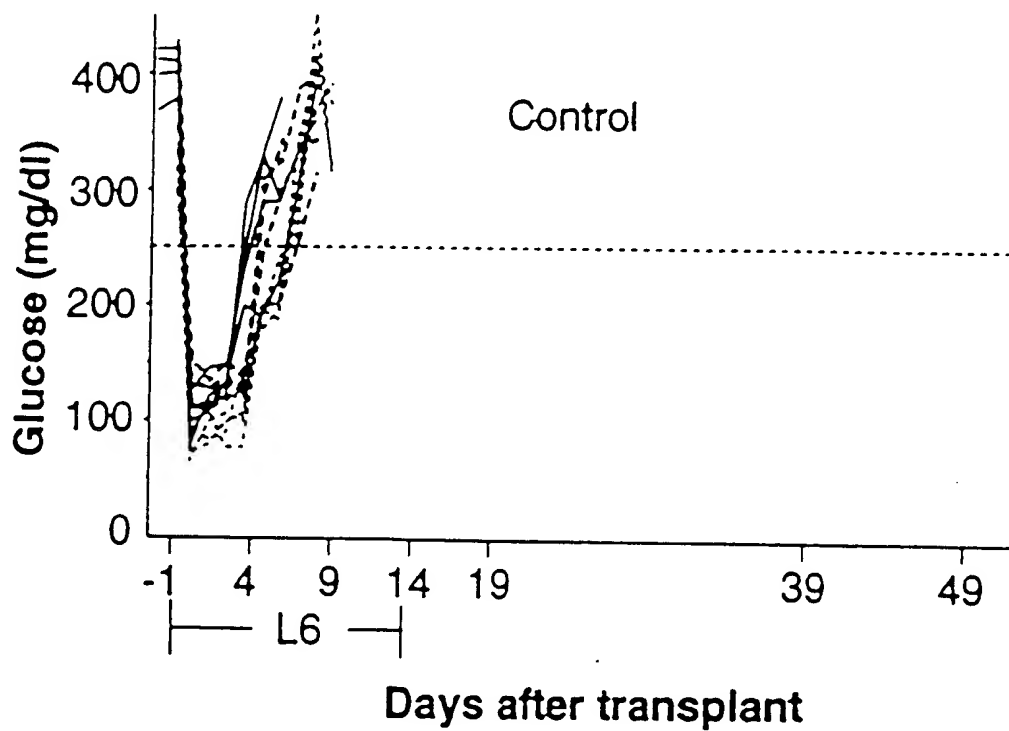


Figure 11A

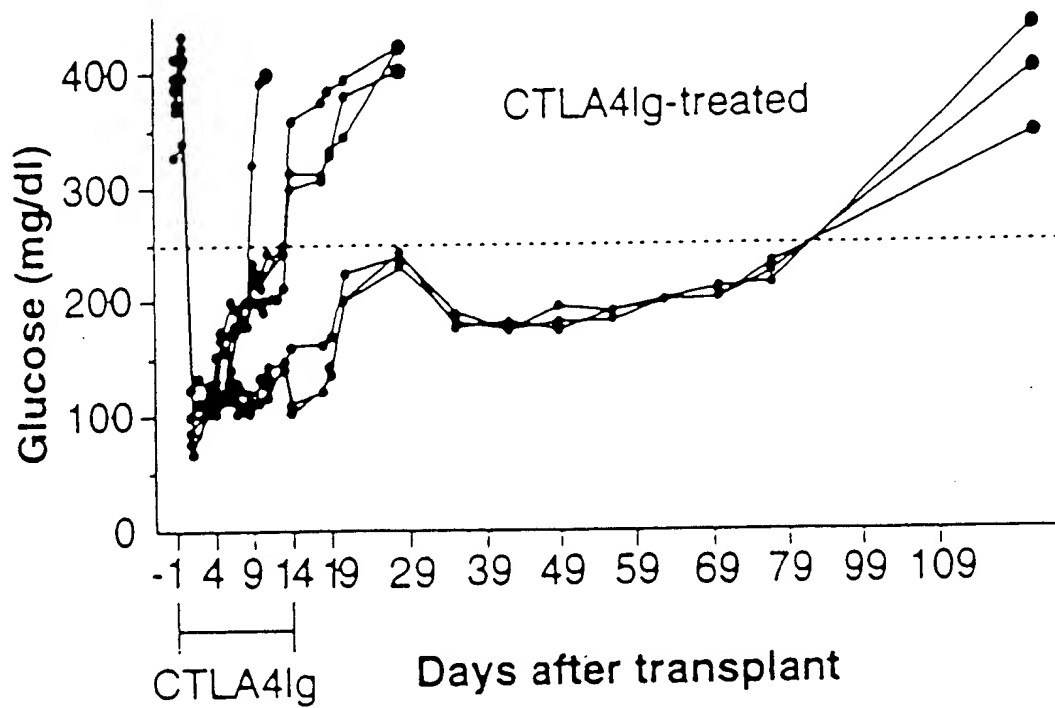


Figure 11B

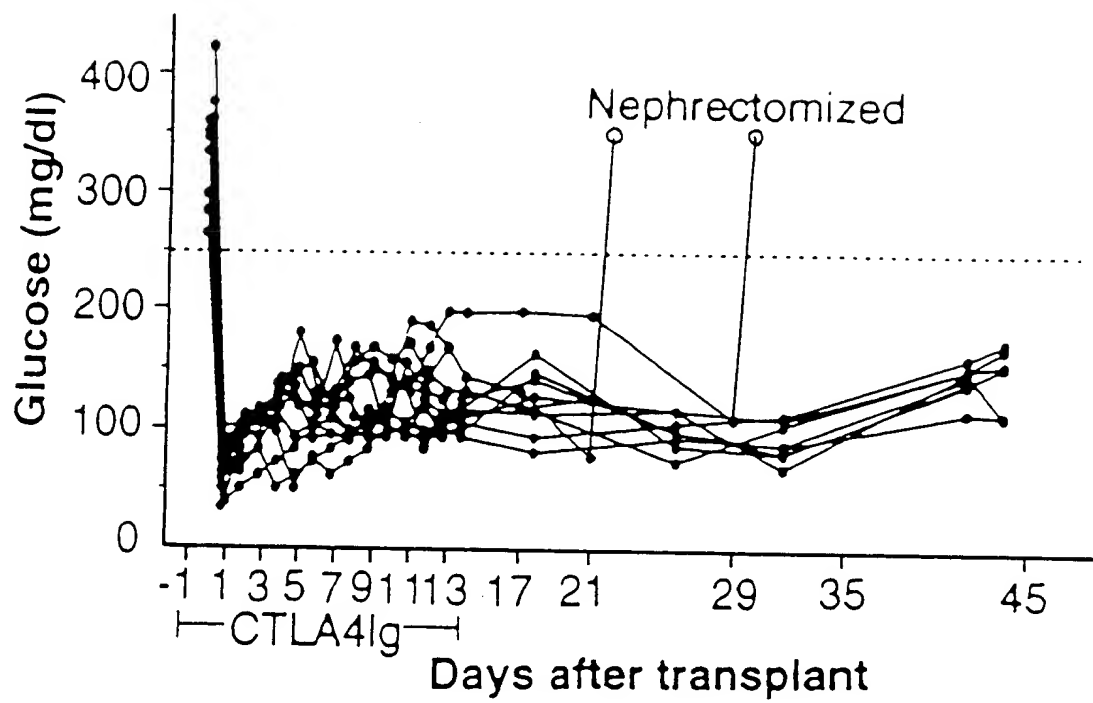


Figure 11C

Figure 12

Figure 1 is a line graph showing blood glucose levels (mg/dl) over 50 days after transplant for various groups of mice. The y-axis represents Glucose (mg/dl) from 0 to 400. The x-axis represents Days after transplant from 0 to 50. A dashed horizontal line at 250 mg/dl indicates the normal level. The groups and their approximate data points are:

Days after transplant	Control (mg/dl)	Anti-B7 (mg/dl)	B7-1 (mg/dl)	B7-2 (mg/dl)	B7-2 + B7-1 (mg/dl)	B7-2 + B7-1 + B7-1 (mg/dl)
0	400	400	400	400	400	400
1	120	100	100	100	100	100
2	100	80	100	100	100	100
3	120	100	100	100	100	100
4	140	100	100	100	100	100
5	160	100	100	100	100	100
6	180	100	100	100	100	100
7	200	100	100	100	100	100
8	200	100	100	100	100	100
9	200	100	100	100	100	100
10	200	100	100	100	100	100
11	200	100	100	100	100	100
12	200	100	100	100	100	100
13	200	100	100	100	100	100
14	200	100	100	100	100	100
15	200	100	100	100	100	100
16	200	100	100	100	100	100
17	200	100	100	100	100	100
18	200	100	100	100	100	100
19	200	100	100	100	100	100
20	200	100	100	100	100	100
21	200	100	100	100	100	100
22	200	100	100	100	100	100
23	200	100	100	100	100	100
24	200	100	100	100	100	100
25	200	100	100	100	100	100
26	200	100	100	100	100	100
27	200	100	100	100	100	100
28	200	100	100	100	100	100
29	200	100	100	100	100	100
30	200	100	100	100	100	100
31	200	100	100	100	100	100
32	200	100	100	100	100	100
33	200	100	100	100	100	100
34	200	100	100	100	100	100
35	200	100	100	100	100	100
36	200	100	100	100	100	100
37	200	100	100	100	100	100
38	200	100	100	100	100	100
39	200	100	100	100	100	100
40	200	100	100	100	100	100
41	200	100	100	100	100	100
42	200	100	100	100	100	100
43	200	100	100	100	100	100
44	200	100	100	100	100	100
45	200	100	100	100	100	100
46	200	100	100	100	100	100
47	200	100	100	100	100	100
48	200	100	100	100	100	100
49	200	100	100	100	100	100
50	200	100	100	100	100	100

Figure 13

Figure 1 is a line graph showing blood glucose levels (mg/dl) over time (days after initial transplant) for three groups of rats: Nephrectomized (solid line, filled circles), Transplanted (dashed line, open circles), and Retransplanted (dotted line, filled circles). The Y-axis ranges from 0 to >450 mg/dl. The X-axis ranges from 0 to 95 days. A horizontal dashed line at approximately 250 mg/dl indicates the normal range. The Nephrectomized group shows a sharp peak in glucose levels around day 48, reaching >450 mg/dl. The Transplanted group shows a peak around day 48, reaching approximately 450 mg/dl. The Retransplanted group shows a peak around day 48, reaching approximately 250 mg/dl. All groups show a decline in glucose levels after day 48, with the Retransplanted group remaining relatively stable around 100-150 mg/dl.

1

Day	Solid Circle (●)	Open Circle (○)	Solid Square (■)	Open Square (□)	Solid Triangle (▲)
0	10 ²	10 ²	10 ²	10 ²	10 ²
10	8 × 10 ²	4 × 10 ²	10 ²	10 ²	10 ²
40	8 × 10 ³	2 × 10 ³	2 × 10 ³	10 ²	10 ²
45	4 × 10 ³	2 × 10 ³	2 × 10 ³	10 ²	10 ²
55	6 × 10 ⁴	5 × 10 ⁴	3 × 10 ⁴	2 × 10 ²	10 ²
65	6 × 10 ⁴	5 × 10 ⁴	4 × 10 ⁴	2 × 10 ⁴	4 × 10 ²
70	6 × 10 ⁴	5 × 10 ⁴	4 × 10 ⁴	2 × 10 ⁴	10 ³

Figure 15

Day	Open Circle	Open Square	Open Triangle	Filled Circle	Filled Square
0	10 ²	10 ²	10 ²	10 ²	10 ²
10	10 ²	10 ²	10 ²	10 ²	10 ²
40	10 ²	10 ²	10 ²	10 ²	10 ²
45	10 ²	10 ²	10 ²	10 ²	10 ²
55	6x10 ³	1.2x10 ⁴	1.2x10 ⁴	1.2x10 ⁴	1.2x10 ⁴
65	10 ⁴	1.2x10 ⁴	1.2x10 ⁴	1.5x10 ⁴	1.2x10 ⁴
70	1.2x10 ⁴	1.2x10 ⁴	1.2x10 ⁴	2x10 ⁴	2.5x10 ⁴

Figure 16

CD28/CTLA-4 family

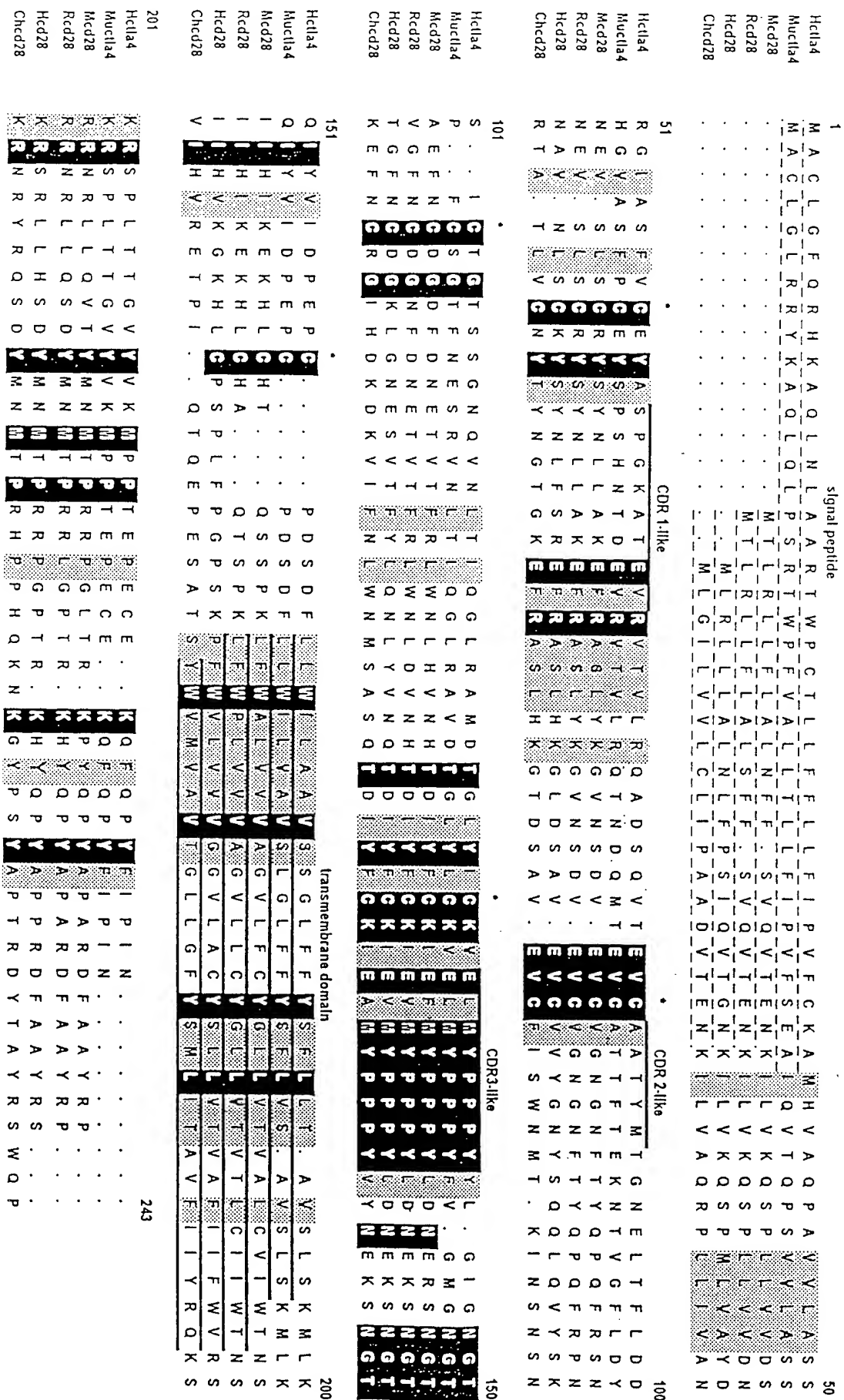


FIGURE 18

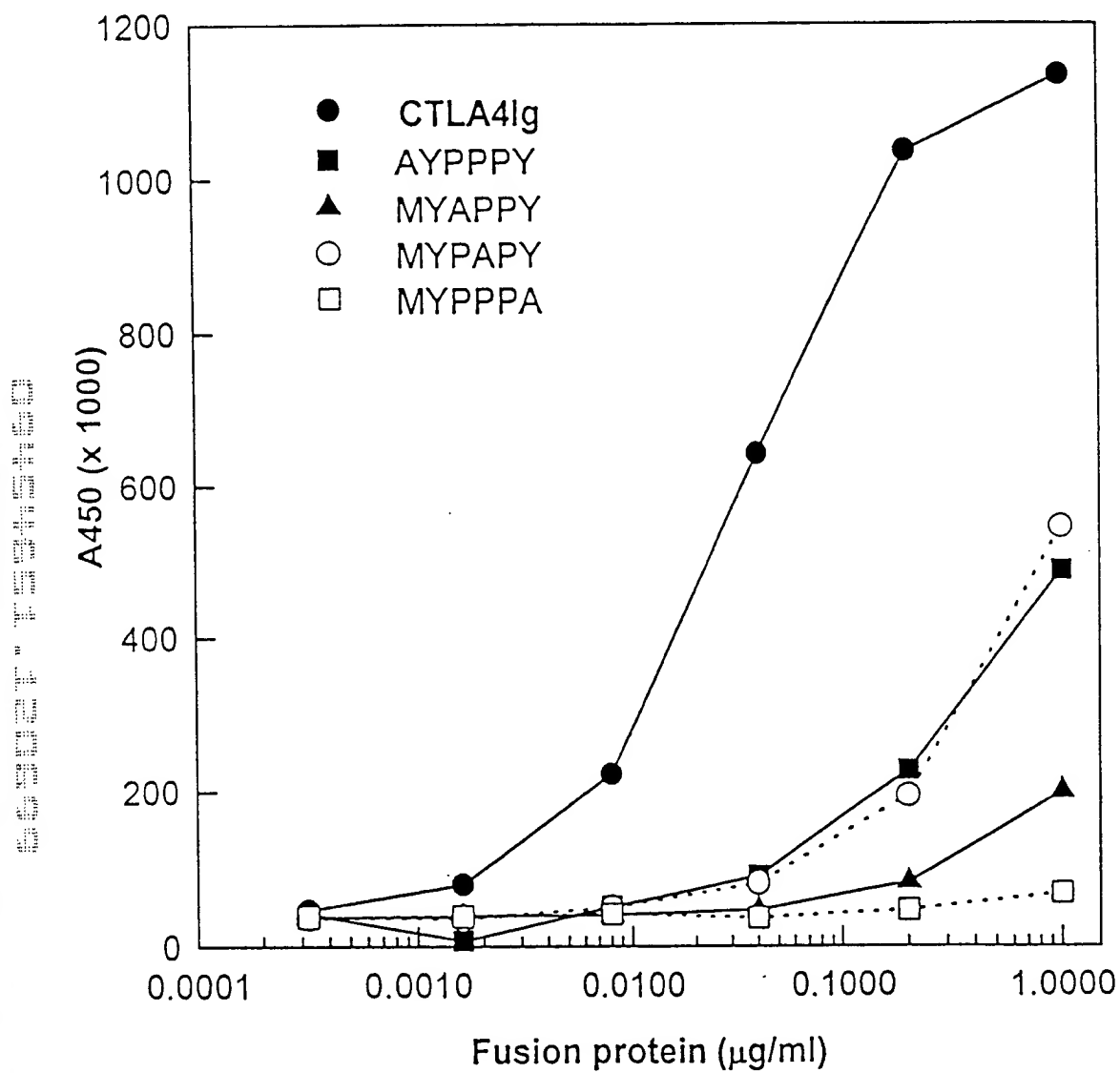


FIGURE 19

% B7
Binding Activity

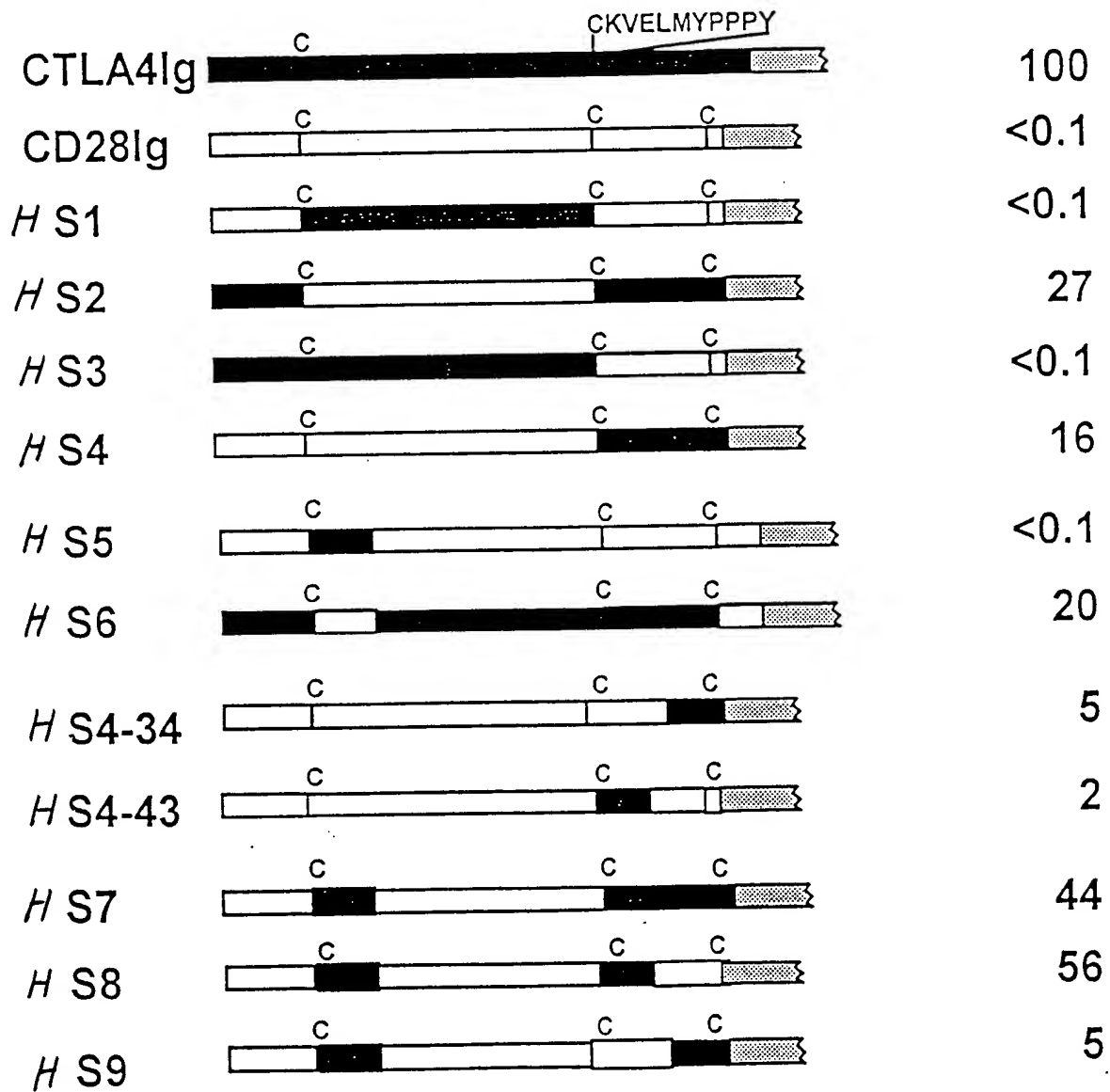


FIGURE 20(a)

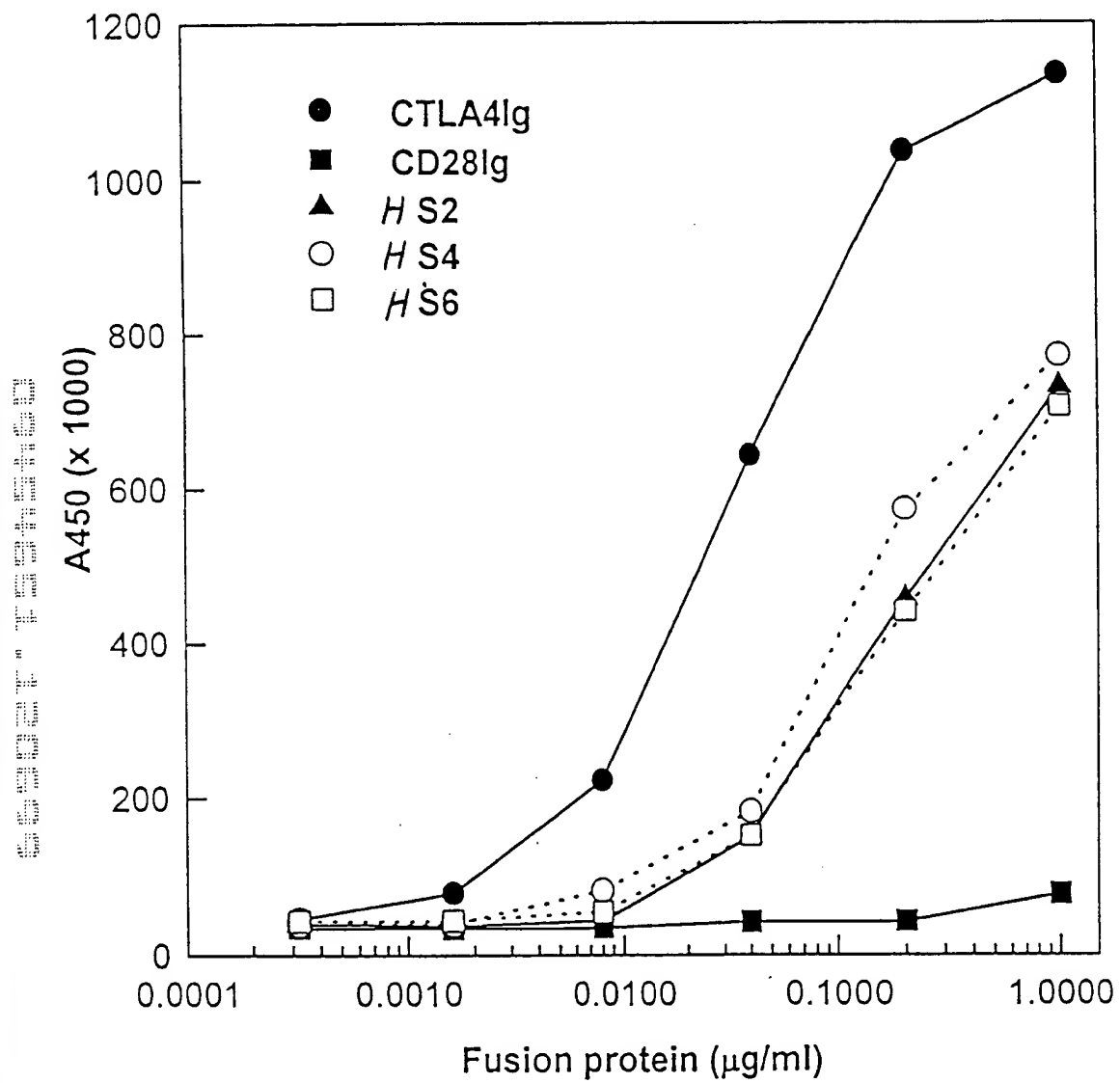


FIGURE 20(b)

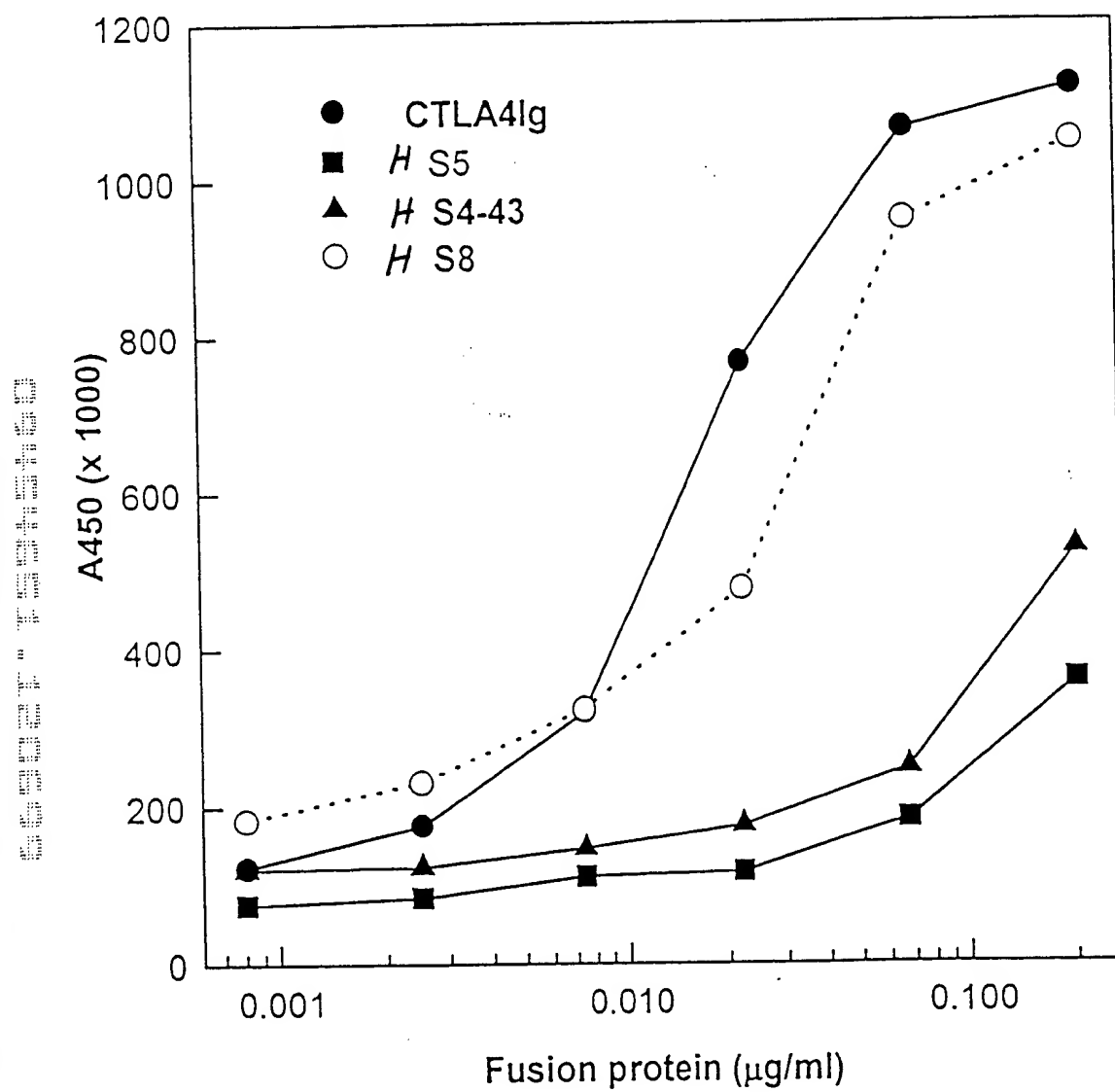


FIGURE 21

